

## JAVA SCRIPT TASK-2

### 1.What will be the output?

```
let x=5;
let y=x;
    x =10;
    console.log(x);
    console.log(y);
```

Output:10  
5

Step-1: In this first we are assigning a variable x with value 5 and then we are reassigned the x with 10 so the output will be 10.

Step-2: In this first we are assigning a variable x with value 5 and then we are declaring a variable y with value equal x which value is 5 so the output will be 5

### 2.What will be the output?

```
let obj1= {name:"Alice"};
let obj2=obj1;
obj1.name="Bob";
console.log(obj1.name);
console.log(obj2.name);
```

Output: Bob  
Bob

Step-1: In this first we are assigning an object 1 value name with Alice and then we are declaring obj2 with the value equal to the obj1 value so it stores Alice and then we are reassigning the obj1 value with Bob so the output will be Bob.

Step-2: In this first we are assigning an object 1 value name with Alice and then we are declaring obj2 with the value equal to the obj1 value so it stores Alice and then we are reassigning the obj1 value with Bob as we know obj2=obj1 so the output will be Bob.

### 3.What will be the output?

```
let a=" hello";
let b=42;
let c=true;
let d={key:"value"};
let e=null;
let f=undefined;
console.log(typeof a);
```

```
console.log(typeof b);
    console.log(typeof c);
    console.log(typeof d);
    console.log(typeof e);
    console.log(typeof f);
```

Output: string  
number  
Boolean  
object  
object  
undefined

#### 4. What will be the output?

```
let numbers = [10,20,30,40,50];
console.log (numbers [2]);
console.log(numbers [0]);
console.log(numbers[number.length - 1]);
```

Output: 30  
10  
50

Step-1: Firstly, we are given an array with variable name numbers with values 10,20,30,40,50 with index values 0,1,2,3,4 so we console numbers [2] it will prints the value with index value is 2 so the output will be 30.

Step-2: Firstly, we are given an array with variable name numbers with values 10,20,30,40,50 with index values 0,1,2,3,4 with length 5 so we console numbers [0] it will prints the value with index value is 0 so the output will be 10.

Step-3: Firstly, we are given an array with variable name numbers with values 10,20,30,40,50 with index values 0,1,2,3,4 so we console.log (numbers [numbers. length-1]. Here the length will be 5 so number.length -1 will be so we will console numbers [4] so the output will be 50. it will print the value with index value is 4 so the output will be 50.

#### 5. What will be the output?

```
let fruits = [ "apple","banana","mango"];
fruits [1] = " orange";
```

```
console.log(fruits);
```

Output:

```
[ 'apple', 'orange', 'mango']
```

Firstly, we are given an array let fruits ["apple","banana","mango"] we are reassigned index 1 value with fruits [1] ="orange" so the output will be giving an array replace the index 1 value banana to orange so the output will be ['apple','orange','mango']

## **6. What will be the output?**

```
let matrix = [  
  [1,2,3],  
  [4,5,6],  
  [7,8,9]  
];  
console.log(matrix[1][2]);  
console.log(matrix[1][0]);
```

Output:6

4

Step1: In this we are taking a matrix, matrix will have 3 indexes with sub index values so here we want to print matrix [1][2] firstly matrix [1] will print [4,5,6] and then we move to sub index matrix [1][2] so output will be 6.

Step1: In this we are taking a matrix, matrix will have 3 indexes with sub index values so here we want to print matrix [1][0] firstly matrix [1] will print [4,5,6] and then we move to sub index matrix [1][0] so output will be 4.

## **7.What will be the output?**

```
let person= {  
  name:"John",  
  age:25,  
  city:"New York"  
};  
console.log(person.name);  
console.log(person.age);
```

Output: John

25

Step-1: In this we are taking an object with keys and values we want print person.name so the output will be John.

Step-2: In this we are taking an object with keys and values we want print person.age so the output will be 25.

### **8.What will be the output?**

```
let car = {  
  make:"Toyota",  
  model:"Corolla",  
  year:2021  
};  
console.log(car["make"]);  
console.log(car["model"]);
```

Output: Toyota

Corolla

Step-1: In this we are taking an object with keys and values we want print car["make"] here make is nothing but key so the output will be Toyota.

Step-2: In this we are taking an object with keys and values we want print car["model"] here make is nothing but key so the output will be Corolla.

### **9. What will be the output?**

```
let book= {  
  title:"The Great Gatsby",  
  author:"F. Scott Fitzgerald"  
};  
book.author="Anonymous";  
console.log(book.author);
```

Output:

Anonymous

Step-1: in this we are taking an object with keys and values first we assigned a key "author" with value F.Scott Fitzgerald and we are reassigned key "author" with "Anonymous" so the output will be "Anonymous"

### **10.What will be the output?**

```
let students= {  
  name:"Alice",  
  grade:"A"
```

```
};  
students.age=20;  
console.log(students);
```

Output: {name: 'Alice', grade: 'A', age: 20}

Step-1: In this we are taking an object with keys and values with variable name students. Here we want to print complete variable So, the Output will be total object.